QC ABSTRACT

NAME OF WORK: Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.36	2	2
8	RCC(M25)	Compressive Strength(7days and 28days)	5 sets	9.6	10	10
9	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.17	2	2
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-17-20** **Date: 11-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri Harshith raj L R(Sunshine Infrastructures), No 286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-02-23
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg.Min)	288.8	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-17-20** **Date: 09-03-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	09-02-23
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-17-20** **Date: 11-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-17-20** **Date: 11-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.3	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-17-20** **Date: 10-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	p	90-100
3	10 mm	2435	2689	53.8	46.2	25-55
4	4.75 mm	1989	4678	93.6	6.4	0-10
5	Pan	322	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-04-17-20** **Date: 10-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	17	17	1.7	98.3	90-100	90-100	90-100	95-100
3	2.36 mm	35	52	5.2	94.8	60-95	75-100	85-100	95-100
4	1.18 mm	229	281	28.1	71.9	30-70	55-90	75-100	90-100
5	600 micron	225	506	50.6	49.4	15-34	35-59	60-79	80-100
6	300 micron	302	808	80.8	19.2	5-20	8-30	12-40	15-50
7	150 micron	121	929	92.9	7.1	0-10	0-10	0-10	0-15
8	Pan	71	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-17-20** **Date: 10-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-04-17-20** **Date: 10-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019
Date of test	:	09-02-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500D	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500D	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500D	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-17-20 **Date: 20/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division

Agency : Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203

Customer's Reference : BBMP/EE/YNK D/Epmt-12/W O/102/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-23

Customer ID : Above SSM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Above SSM	M15	13/02/2023	20/02/2023	151.77 X 150.33 X 151.92	22815	8.751	288.9	12.7	12.6
2	Above SSM	M15	13/02/2023	20/02/2023	149.36 X 151.52 X 149.37	22630	8.320	290.1	12.8	
3	Above SSM	M15	13/02/2023	20/02/2023	149.02 X 151.50 X 150.61	22576	8.799	281.0	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/03/2023

Lab ID	:	CP-2023-04-17-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Above SSM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Above SSM	M15	13/02/2023	13/03/2023	150.70 X 149.17 X 150.89	22479	8.666	386.3	17.2	17.3
2	Above SSM	M15	13/02/2023	13/03/2023	149.97 X 149.25 X 149.84	22383	8.283	381.3	17.0	
3	Above SSM	M15	13/02/2023	13/03/2023	151.95 X 151.82 X 150.04	23068	8.735	405.8	17.6	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-17-20** **Date: 14/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Customer ID	:	Sump Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	14/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M25	07/03/2023	14/03/2023	151.59 X 151.49 X 150.70	22964	8.795	544.6	23.7	22.9
2	Sump Concrete	M25	07/03/2023	14/03/2023	150.48 X 151.66 X 151.77	22822	8.747	517.8	22.7	
3	Sump Concrete	M25	07/03/2023	14/03/2023	149.81 X 150.65 X 149.56	22568	8.287	505.9	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-17-20** **Date: 04/04/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W.O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Customer ID	:	Sump Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	04/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M25	07/03/2023	04/04/2023	150.59 X 150.99 X 150.98	22737	8.902	620.7	27.3	27.5
2	Sump Concrete	M25	07/03/2023	04/04/2023	150.00 X 150.18 X 151.61	22527	8.109	607.4	27.0	
3	Sump Concrete	M25	07/03/2023	04/04/2023	151.40 X 151.55 X 151.06	22944	8.581	645.4	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-17-20** **Date: 17/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-23
Customer ID	:	Cover Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cover Slab Concrete	M25	10/03/2023	17/03/2023	150.83 X 151.15 X 150.46	22797	8.591	538.8	23.6	23.0
2	Cover Slab Concrete	M25	10/03/2023	17/03/2023	151.06 X 149.48 X 151.43	22580	8.399	513.0	22.7	
3	Cover Slab Concrete	M25	10/03/2023	17/03/2023	151.54 X 149.92 X 150.19	22719	8.328	515.2	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-17-20 **Date: 27/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore

Project Name : Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division

Agency : Sri Harshith raj L R(Sunshine Infrastructures), No 286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203

Customer's Reference : BBMP/EE/YNK D/Epmt-12/W O/102/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-23

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 27/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Footing Concrete	M25	20/02/2023	27/02/2023	150.82 X 151.87 X 149.59	22906	8.763	532.6	23.3	22.7
2	Footing Concrete	M25	20/02/2023	27/02/2023	149.82 X 151.60 X 151.05	22712	8.832	510.3	22.5	
3	Footing Concrete	M25	20/02/2023	27/02/2023	150.33 X 149.85 X 149.74	22528	8.780	503.6	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-17-20** **Date: 04/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No 286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK.D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-02-23
Customer ID	:	Plinth Beam for Compund Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	04/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam for Compund Wall	M25	25/02/2023	04/03/2023	149.44 X 150.73 X 151.47	22526	8.239	537.4	23.9	23.1
2	Plinth Beam for Compund Wall	M25	25/02/2023	04/03/2023	149.16 X 151.67 X 150.09	22623	8.850	517.1	22.9	
3	Plinth Beam for Compund Wall	M25	25/02/2023	04/03/2023	151.09 X 149.14 X 151.78	22533	8.971	508.3	22.6	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-17-20** **Date: 07/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-23
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	07/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	28/02/2023	07/03/2023	151.32 X 150.00 X 150.10	22697	8.412	524.3	23.1	22.6
2	Column Concrete	M25	28/02/2023	07/03/2023	149.29 X 151.62 X 150.95	22635	9.060	500.2	22.1	
3	Column Concrete	M25	28/02/2023	07/03/2023	149.39 X 149.55 X 149.29	22341	8.424	503.1	22.5	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-04-17-20** **Date: 13-03-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and construction of compound wall Sump Tank at kanakanagara Govt School in Someshwara ward no-03 of Yelahanka Satellite town sub division
Agency	:	Sri. Harshith raj L R(Sunshine Infrastructures), No.286, 2nd Cross 28th ward Someshwara estension, Doddaballapura Bangalore-561203
Customer's Reference	:	BBMP/EE/YNK D/Epmt-12/W O/102/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS 2185 (Part 1) 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	09-03-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	149	201	11920	22.678	1902.6	1869.8	Not less than 1800Kg/m^3
2	405	152	200	12312	21.890	1777.9		
3	398	150	203	12119	23.375	1928.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **CP-2023-04-17-20** **Date: 13-03-23**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	150	60006	269.7	4.5	4.4
2	399	151	60327	275.6	4.6	
3	402	151	60887	260.1	4.3	
4	402	153	61273	278.2	4.5	
5	402	152	61226	250.9	4.1	
6	401	152	60818	265.8	4.4	
7	400	152	60769	258.0	4.2	
8	399	152	60820	268.3	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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